JAP7 Rec'd PCT/PTO 10 APR 2006

PTO-1390 (Rev. 07-2005) Approved for use through 3/31/2007. OMB 0651-0021

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ATTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES 2771-682 US DESIGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPLICATION NO Not Yet Known **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED 14 October 2003 PCT/US2004/033915 14 October 2004 TITLE OF INVENTION: HYDROGEN GENERATION APPLICANT(S) FOR DO/EO/US: J. Donald Carruthers, Jose I. Arno Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. X This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. X The US has been elected (Article 31). 5. X A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) is attached hereto (required only if not communicated by the International Bureau). International Publication No. WO 2005/037421 as published on April 28, 2005 has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). a. is attached hereto. b. has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. X A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825. 17. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 18. l

This collection of information is required by 37 CFR 1.414 and 1.491–1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

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U.S. APPLICATION NO. (#kneyr per 57 OFR 1.5) INTERNATIONAL APPLICATION PCT/US04/033915						ATTORNEY'S DOCKET NUMBER 2771-682 US			
20. Other items or information: Return Receipt Postcard and Credit Card Form									
The follow	ing fees ha	ve been su	bmitted				CALCULATIONS	PTO USE ONLY	
21. X Basic national fee (37 CRF 1.492(a))						\$300			
22. X Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of the PCT PCT Article 33(1)-(4) \$0							\$ 0		
All other situations \$200 23. X Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of the PCT Article 33(1)-(4)\$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority							0		
		тот	AL OF 21, 22 and	23 =			\$ 300		
sequen electron The fee Total Sheets 45 -100 =	ce listing IN nic medium is \$250 for Extra she	I COMPLIA) (37 CFR r each add eets /50 =	ANCE WITH 37 of 1.492(j)). itional 50 sheets of Number of each thereof (round	in paper over 100 sheets (if 1.821(c) or (e) or comput of paper or fraction thereof. In additional 50 or fraction up to a whole number)	er progra	RATE x \$250	\$ 0		
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of the commencement of the national stage (37 CFR 1.492(h)).						\$ 0			
CLAIMS		NUN	BER FILED	NUMBER EXTRA		RATE	\$		
Total claims			33 - 20 =	63	×	\$50	\$3,150		
Independent claims			5 - 3 =	2	X	\$200	\$ 400		
MULTIPLE DEPEN	IDENT CLA	AIM(S) (if a	pplicable)	TOTAL OF AD	+	\$360	\$ 0 \$3,850		
Applicant of	laime emall	antity stat	us See 37 CED 1	.27. Fees above are redu		LCULATIONS =	\$3,850		
Applicant c	alins small	- Citity State	us. See St Clik i	1.27. Tees above are redu	ed by 7.	SUBTOTAL =	\$3,850		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						\$ 0			
		•		Т	TAL N	ATIONAL FEE =	\$3,850		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +							\$ 0		
				то1	AL FEE	S ENCLOSED =	\$3,850		
a. A check in the amount of \$ to cover the above fees is enclosed. b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.									
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>08-3284</u> . A duplicate copy of this sheet is enclosed.									
d. X Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.									
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed									
and granted to restore the International Application to pending status.									
SEND ALL CORRESPONDENCE TO: INTELLECTUAL PROPERTY/TECHNOLOGY LAW P.O. Box 14329					SIGNATURE:				
Research Triangle Park, NC 27709-4329 Steven J. Hultquist NAME									
28,021 REGISTRATION NUMBER									

10/575556JAP15 Rec'd PCT/PTO 1 0 APR 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re United States	s Patent Application of:)					
Applicant(s):	Carruthers, et al.) Docket No.:	2771-682 US				
Application No.:	New U.S. National Stage Application of PCT International Application No. PCT/US2004/033915	Examiner:	Not Yet Assigned				
Int'l Filing Date:	14 October 2004	Art Unit:	Not Yet Assigned				
Priority Date:	14 October 2003 (U.S. Provisional Patent Application No. 60/510,983)))) Customer No.:	23448				
Title:	HYDROGEN GENERATION))					
	EXPRESS MAIL CERTIFICATE I hereby certify that I am mailing the attached documents to the Commissioner for Patents on the date specified, in an envelope addressed to Mail Stop: PCT Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 and Express Mailed under the provisions of 37 CFR 1.10. Candace White April 10, 2006 Date EO 008 658 765 US Express Mail Label Number						

SUBMISSION UNDER 35 U.S.C. §371 OF UNITED STATES PATENT APPLICATION (NATIONAL PHASE PROCEEDINGS) BASED ON INTERNATIONAL APPLICATION NO. PCT/US2004/033915 AND CLAIMING PRIORITY OF U. S. PROVISIONAL PATENT APPLICATION NO. 60/510,983

Mail Stop: PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith for filing under the provisions of 37 CFR §1.53 and 35 U.S.C. §371 is the above-referenced patent application, based on International Patent Application No. PCT/US2004/033915 and claiming priority of U.S. Provisional Patent Application No. 60/510,983. A copy of International Publication No. WO 2005/037421 as published on April 28, 2005 is also included. Further included

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is a copy of the signed PCT Power of Attorney documents, a return postcard, and a credit card form in the amount of \$3,850.00 and 35 U.S.C. §371 transmittal forms.

Please direct correspondence relating to this application to Steven J. Hultquist, Intellectual Property Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709, and direct telephonic communications relating to this application to Steven J. Hultquist at (919) 419-9350.

Respectfully submitted,

Steven J. Hultquist Registration No. 28,021 Attorney for Applicants

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